



First : Short Answer Questions (SAQ)

- 1- Explain why the trypsin enzyme does not digest the pancreas ?
- 2- Describe the nervous regulation of colonic motility ?
- 3- Enumerate two mechanisms of long-term regulation of food intake ?
- 4- Define the anaerobic threshold and mention its normal value ?
- 5- Mention the contents of the porta hepatis ?
- 6- Enumerate the arterial supply of the gums and palate ?
- 7- Enumerate four muscles of mastication ?
- 8- Mention two esophageal constrictions ?
- 9- Explain the light microscopic features of the parietal cell ?
- 10- Mention two differences between mucous and serous acini ?
- 11- Mention two contents of the space of Disse ?
- 12- Explain the pathogenesis of brucellosis ?
- 13- Explain the development of hepatocellular carcinoma from hepatitis infection ?
- 14- Mention two precancerous lesions of the oral cavity ?
- 15- Describe the E/M of Crohn's disease ?
- 16- What will result from transcoelomic spread of colorectal cancer ?
- 17- Mention the four parameters on which chronic hepatitis activity is graded ?
- 18- Mention two modes of transmission of *Strongyloides stercoralis* ?
- 19- How can false fascioliasis be excluded ?
- 20- Mention two pathogenic mechanisms of *Entamoeba histolytica* ?

- 21- Explain the mechanism of action of lamivudine ?
 - 22- Explain the mechanism of action of omeprazole ?
 - 23- Mention one drug used in motion sickness and its mechanism of actions ?
 - 24- Mention the prevention and treatment of traveler's diarrhea.
 - 25- Mention the regulatory enzymes of glycolysis.
 - 26- Describe the effect of glucose on lipolysis and re-esterification.
 - 27- Outline the formation of malonyl-CoA in fatty acid synthesis.
 - 28- Mention the amino acids used in purine synthesis and the atoms they provide.
 - 29- Explain the role of ketone bodies in prolonged fasting.
 - 30- Mention two actions of gastrin.
 - 31- Describe the cytopathic effect of adenovirus.
 - 32- Enumerate the anterior relations of the lower third of the rectum in a male.
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Second : Multiple Choice Questions (MCQ)

1- Severe parasympathetic stimulation of salivary glands produces saliva that is:

[Answer: Similar to plasma](#)

2- Action that clears the stomach from indigestible food residues:

[Answer: Migratory motor complex](#)

3- True description of the stage of chills in fever:

[Answer: Decrease in skin temperature](#)

4- Increased duodenal acidity leads to:

[Answer: Stimulation of secretin secretion](#)

5- Tumor of pancreas causing ↑ VIP hormone leads to:

[Answer: Diarrhea](#)

6- Stimulation of which area causes hunger sensation?

[Answer: Lateral hypothalamic area](#)

7- Oxygen debt is paid during:

Answer: Recovery period

8- Termination level of abdominal aorta:

Answer: Transcrestal plane

9- Site of pyramidalis muscle:

Answer: Inside rectus sheath

10- Structure that drains directly into the portal vein:

Answer: Splenic vein

11- Falciform ligament attaches liver to:

Answer: Anterior abdominal wall

12- Failure of midgut to return to abdominal cavity results in:

Answer: Omphalocele

13- Meckel's diverticulum results from persistence of:

Answer: Proximal part of vitelline duct

14- Site of basket (myoepithelial) cells:

Answer: Between acinar cells and basement membrane

15- Gall bladder lacks which of the following layers :

Answer: Submucosa

16- Most numerous (Predominant) cell type in large intestine:

Answer: Goblet cells

17- Edge of gastric (peptic) ulcer:

Answer: Punched-out

18- Linitis plastica is:

Answer: Diffuse infiltrating carcinoma affect the whole stomach leading to Small rigid, thick walled stomach with narrow lumen

19- Micronodular cirrhosis is characterized by:

Answer: Nodules < 3 mm and uniform

20- Case (Cirrhosis with mass invading vessels indicates) :

Answer: Hepatocellular carcinoma

21- Case (Farmer with intestinal obstruction passing a large worm through body orifice) :

Answer: [Ascaris lumbricoides](#)

22- Which of the following causes bather's itch:

Answer: [Schistosoma mansoni](#)

23- Feeding mechanism of Giardia lamblia:

Answer : [Pinocytosis](#)

24- Cell-to-cell spread of Shigella occurs via:

Answer: [Actin filaments](#)

25- Campylobacter is difficult to culture because it is:

Answer: [Microaerophilic & capnophilic](#)

26- Case(A child presents in winter with severe diarrhea and vomiting. Which of the following is the most likely causative agent?) :

Answer: [Non-enveloped double-stranded RNA virus](#)

27- HBsAg+, HBcAb IgG+, HBeAg-, HBeAb+ indicates:

Answer: [Chronic hepatitis B with low infectivity](#)

28- NSAID-induced ulcer prevention drug:

Answer: [Misoprostol](#)

29- Case (A patient on long-term opioid therapy develops constipation, and treatment is required without reducing the local analgesic effect) :

Answer: [Naloxegol](#)

30- Drug used in CINV as first line with corticosteroids:

Answer : [Ondansetron](#)

31- First-line treatment for hyperammonemia:

Answer: [Lactulose](#)

32- Drug for obese diabetic patient:

Answer: [Semaglutide](#)

33- Adverse effect of excess 5% glucose infusion:

Answer: [Hyponatremia](#)

34- Type of glycolysis during strength muscle exercise:

Answer: Anaerobic glycolysis

35- Enzyme deficiency causing hemolytic attack after fava bean ingestion :

Answer: Glucose-6-phosphate dehydrogenase

36- Most active enzyme for lipid digestion :

Answer: Pancreatic lipase

37- Muscle glycogen does not contribute to blood glucose regulation because it lacks:

Answer : Glucose-6-phosphatase

38- Conversion of acetoacetate to β -hydroxybutyrate occurs by:

Answer: Reduction reaction

39- Formation of carnosine and anserine requires reaction of β -alanine with:

Answer: Histidine

40- Case(Flapping tremor, slurred speech and blurred vision with elevated ammonia is due to) :

Answer: Decreased α -ketoglutarate

41- Reaction that occurs spontaneously and releases energy:

Answer: Exergonic reaction

42- Which molecule reacts with acetoacetate to form acetoacetyl-CoA in the ketone body utilization pathway ?

Answer: Succinyl-CoA

The last final exam in our academic modules journey

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